















INTRODUCTORY LECTURE,

DELIVERED BEFORE THE

AMERICAN INSTITUTE OF THE CITY OF NEW-YORK,

AT CLINTON HALL,

ON THE EIGHTH OF JANUARY, 1835.

BY T. B. WAKEMAN.

NEW-YORK:

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INTRODUCTORY LECTURE.

The duty of commencing a series of lectures before the members of the American Institute has been assigned to me. It was an unexpected honor—an honor for which I feel grateful. And were I capable of doing justice to the occasion, it would be one of the proudest circumstances of my life. But while I feel conscious of my inability to say what ought to be said, I am at the same time satisfied that, as an early and devoted member, every indulgence will be extended to me, and that my sincerity in the cause will afford an ample apology for every imperfection.

It is difficult duly to appreciate the bearings, influence, and extended importance of this association—the American Institute—intended not to be limited to a single state, nor to any great section of our country, but a national establishment, whose influences are designed to be spread to the utmost boundaries of our republic. Located in the city of New-York—the heart of the nation—a place of all others calculated, under proper direction, for a great, powerful, and eminently useful institution, capable of extending its benefits, not only to the present inhabitants of these United States, but to future generations.

The charter under which we are authorized to act, was granted the 2d of May, 1829. It is to the members a perpetual bond, sanctioned by the supreme power of the State. The objects intended to be accomplished through your exertions, and instrumentality, are plainly recounted. They are as follows—" for the purpose of encouraging and promo-

ting domestic industry in this State, and the United States; in agriculture, commerce, manufactures, and the arts, and any improvements made therein, by bestowing rewards, and other benefits on those who shall make any such improvements, or excel in any of the said branches, and by such other ways, and means, as to the said corporation, or the trustees thereof, shall appear to be most expedient."

The association is also empowered to make By-Laws for the purpose of carrying into effect the objects just quoted. The legislature intended to cover the broad ground of political economy. They foresaw the vivifying influences, which, under able management, such an institution must exert, on invention, the arts, and industry in general. They foresaw the knowledge it was calculated to gather and diffuse. Time has already, partially, verified their anticipations. But much remains to be accomplished.

And here the questions naturally present themselves,—what has the American Institute already done, and to what purpose have these ample powers, conferred, been exerted? And 2d, what further remains to be done?

Among other things which have grown out of this Institution, since its organization, are the written and printed communications, either voluntary or prompted, from individuals and scientific institutions. The practical and learned managers of the Royal gardens in Italy, and some of the most distinguished philosophers in France, have favored us with the fruits of their researches and experience. Prac-

in our own country, have aided-their vantages, and strengthened their gigantic rich contributions have poured in, for monopoly.

our gratification, and instruction.

great variety of reports have been made millenium in perspective, deluded some, on subjects intimately connected with vast numbers, from hopes of gain; and the prosperity of the country-on cotton others, for political preferment, rallied cloths, and yarns, on silks, oil cloths, round the free trade standard. glass, and cabinet wares, and ship build- contended that the expediency of pursuing, on the manufacture of leather, shoes, ing manufactures in this country must be and on the cultivation of indigo, cash tested by their ability in their infancy, duties, &c.: embracing a great number to compete with establishments which of facts, collected with persevering in- had been nurtured into existence, and dustry, and arranged with skill and care. grown and strengthened for ages. These reports have excited discussions, apprentice was required, on his first enamong the members. These discussions trance into the workshop, to do more inestimable consideration.

The human mind is incomprehensible sary tools. to itself. Ideas, in their dormant conflint is of the fire it contains; when that never have been refuted. against governmental protection.

an unrestricted interchange of the com- than before.

tical individuals and affiliated institutions, stipulations which gave them decided ad-

The syren sounds of free trade, perfect At our stated and other meetings, a reciprocity, and the painted commercial have elicited ideas which would have than the duties of an accomplished jour-laid dormant forever. The advantages, neyman—for we had, in many branches of springing from such discussions, are of manufactures, every thing to learn, and were wholly destitute of even the neces-

These suicidal doctrines, aimed at the vidition, are as valueless as nonentities. tals of American industry, were repelled by And the mind, in an unexcited state, is facts, analogies, and arguments contained as unconscious of their existence, as the in authentic reports read to this Institute, These heated, and brought into action by dis- reports show that our mechanical and cussion, thought creates thought-and manufacturing establishments have uniideas succeed ideas, the mind knows not formly flourished under the fostering inhow-and the debater is often amazed, fluence of protection. The application at the fertility of his own conceptions, of this stimulus brought capital, skill, in-and the creative powers of his own in- dustry, and economy, into operation, and vention. Many of the reports, made to the consumer was soon supplied with a the Institute, were intended to fortify cheaper and better article. The reports the necessity of the protective system. name the exact prices of particular arti-A powerful and dangerous foreign influ- cles, from an early period of our country's ence had been exerted in this country, history, down to the present time; and they also note all the intermediate advan-For some time previous to the incor- ces of our tariff, thereby demonstrating poration of this Institute, the British as far as facts and analogies can demonpress had continually teemed with pamph- strate, that increased protecting duties, at lets and publications, intended only for every successive stage of their increase, exportation, (for they were never prac- have conduced to reduce prices, and tised upon at home,) filled with hosannas benefit the consumer; and at the same time promote the general prosperity, by They recommended, with all the ardor enabling all to obtain the comforts of life, of sincerity, a most amiable reciprocity— with greater facility, and with less toil, There is a remarkable modities of all climes, and all countries— uniformity, as exhibited in these reports, at the same time that they clung with in the decline of prices at each sucscrupulous tenacity to their own enact- cessive advance of the tariff of duties. ments, that excluded from their markets, Facts likewise show, that the prices of any, and every article, produced within those articles which have not received the limits of their wide spread empire. the favor of protecting laws, have, to a Their pretended relaxations were general- great extent, and with remarkable unily so graduated, as not to impair an iota of formity, maintained their prices; or if their restrictive policy; or if a single they have declined in prices, their deexception was permitted, it was under cline has not been at all proportioned designed for them. ed to every part of our country.

mestic industry by other and more direct ror, at the risk of his life, tried experimeans: by procuring, and distributing, gratuitously, large quantities of the White Mulberry Seed for the culture of Silk.

to the decline on those articles which and much of the praise due to the labors have been fostered by protection. Home attending the reports produced before competition has not been brought to bear the Institute, the procuring and distribution them: our home supply, in the abting of the mulberry seeds, and experisence of protection, has been obtained ments on the silk-worm, in justice is due from abroad, and accordingly in the ab- to our deceased friend, and late fellow sence of protection, and consequent com- laborer, Doctor Felix Pascalis.* A petition in production, here, the foreign passing notice of the prominent characproducer has been enabled, in a great teristics of this venerated man, who has measure, to affix prices in accordance so often met us, and so often entertained with his own interest. If there are any and instructed us, it is hoped will not be exceptions, those exceptions are shown unacceptable. It falls to the lot of few to arise from some peculiar qualities in men, of any age, to have the opportunity, the articles themselves, not attendant on industry, and capacity, to encompass ordinary cases-such as bulkiness, lia- such a mass of learning as was encombility to breakages, being of a perisha- passed by Dr. Pascalis. Moral courage. ble nature, or subject to injury from sea and enduring perseverance, however, voyages, or some other causes,—which, in were the distinguishing characteristics of effect, gives to the American manufachis mind. Thus qualified, he early enturer, a palpable advantage over his listed as a combatant against error and foreign competitor, and in their influ- imposture, and in favor of those objects of ences afford a substitute for governmental utility, which he believed would conduce protection. These reports have all been to the comfort and happiness of man. In published, and circulated far and wide, such a cause he did not hesitate to jeoand at a time when heterodox doctrines pard every thing. At one period of were gaining ground, and no doubt have his life you might have seen him in his had their influence in rescuing our manunative France, in possession of a benefacturers from the destruction that was fice, surrounded with friends, and with The public ad- an ample income, that supplied him with dresses which we have witnessed at our every comfort his desires could suggest. annual public exhibitions, by distinguish. "The road to power and wealth lay ed individuals from other states, afford open before him." He at the same time specimens of oratory and talent of the could not but witness the detestable imhighest order. They are masterly efforts, in favor of encouraging American in-dustry. The principles of protection are flattering prospects, he manfully came happily elucidated and enforced. They forth and exposed them. As might have are replete with facts and documents, been expected, he fell a victim to their showing, among other things, that one of fury, and was formally excommunicated. the paramount objects in forming the Had he truckled to corruption, he might constitution of the United States, was the have revelled in luxury. His moral sense protection of American labor against the revolted, and his courage defied hosts of sweeping rivalry of older nations. That venal slaves, whose consciences yielded protected labor must form the only firm to the unprincipled biddings of a depraved and durable basis of lasting independence. hierarchy, and who joined in proscribing They all breathe the purest spirit of him. He brought with him to America patriotism. They were delivered to the same fearless spirit—the same inhe-crowded audiences, they have all been rent desire to do good. Soon after his published, and republished, and distribut. arrival he encountered that dreadful scourge of our populous cities-the yel-The efforts of the Institute have not low fever. An idea prevailed that it been confined to the collection of facts, was contagious. Friends and relations and to the induction of principles; they were abandoned to suffering and death. have labored to advance the cause of do- Doctor Pascalis, believing it was an er-

atuitously, large quantities of the White ulberry Seed for the culture of Silk.

The merit of proposing this subject, is a member of the Institute.

* Many of the facts hereafter stated in relation to Doctor Pascalis are derived from that accomplished biographer and scholar, Col. Samuel L. Knapp, who is a member of the Institute.

awful visitation.

a resolution on the subject of silk, and in 1832, and 1833. June following a regular report was made, plants, and others obtained soon after, for plied, and the efforts of the Institute Mr. Parmentier, they have been multi- were for years most assiduously and suc-

ments, among the dying and dead, in all plied almost beyond credibility. the perilous shapes and ways that could thus the way is prepared for the raising be thought of. The result afforded abun- of silk-worms to an incalculable amount. dant proof, in his mind, that yellow fever The necessary incipient steps have been depended on local causes, and that the taken towards the manufacture of that masses of putrifying bodies in our grave- precious commodity which every year yards, situated in the midst of our dense drains our country of so great a proporpopulation, were a principal cause of its tion of her annual earnings. The subprevalence here. He did not hesitate to ject of silk, as our journals show, occuencounter the prejudices of the ignorant, pied the attention of Dr. Pascalis, from or the power of the rich, by his efforts in that period until July, 1833, when his preventing the burials, and by continued useful life terminated. His experiments, perseverance in explaining and enforc- showing the effects of electricity on the ing its importance to the health of the silk-worm, were highly complimented in city. His theory eventually prevailed, the French journals, and his two vol-and, conformably to his often repeated umes dedicated to the American Institute, predictions, our city has escaped this on the mulberry, and the raising of silkworms, are permanent memorials of his In the early stages of this Institute, accurate knowledge of the subjects on when it was pronounced by some, "a which he has written. To his learning small tariff concern," and by others "a and industry the Institute is indebted for humbug," Doctor Pascalis applied to be- much of its celebrity, and the country is come a member. His first efforts were under deep obligations to him for having directed to the production of silk. From given an early impulse to a branch of inthe groves of mulberries in his native dustry in which the whole nation is deepland, he had often, with his own hands, ly interested. The exhausting effects of gathered the foliage that sustains the our heavy importations of silks demand worm. He knew the importance of com- some immediate and powerful corrective. mencing at once in procuring the aliment Twenty-nine millions two hundred and on which it exists. Accordingly, at twenty-six thousand eight hundred and the first meeting of the institution, after four dollars of the hard earnings of our the adoption of a constitution, before its in-citizens were paid to foreign nations for corporation, (March, 1828,) he introduced foreign silks alone, in the years 1831,

The produce which can be spared for and a permanent silk committee was exportation, by all the hard-working farmconstituted. The July following, the ers in all the northern and middle states, committee recommended the importation will not more than balance our silk acof a large quantity of white mulberry count. It is true, that a portion of these seed from France, which was approved, silks are exported; but after deducting and by the agency of Doctor Pascalis, the amount exported, which will average who had previously been made an hono- \$1,758,450 per annum, for the 3 years rary member, large quantities were im- before specified, there was consumed, ported at the expense of the Institute. within the United States, \$7,983,818, on At a meeting on the 4th of December, an average, of each year,—\$1,495,938 1828, their arrival was announced. An more, each year, than was received from address to the public was prepared on all the wheat, Indian corn, rye, oats, and the subject and published. The seeds other small grains, biscuit, potatoes, flaxwere gratuitously distributed, sufficient seed, and hops, exported in 1833, to every for many thousand trees. From these part of the world. Double the amount seeds innumerable mulberries are grow- of silks imported might be raised and ing in many parts of our country. In 1828 manufactured in our own country, chiefly he also procured from France three flour- by women, children, and infirm persons, ishing Chinese mulberry plants, of great without materially detracting from any value, the first ever imported into this of the other productive branches of incountry. They had been introduced into dustry. The aliment of the insect that France the year before. From these afforded this luxury was first to be sup-

their country. not stopped here. Under its auspices their culture or manufacture before we the first fair, in particular, that it was ficial undertakings." confidently denied that the articles were American. The community, generally, had not kept pace at all with the rapid march of mechanical and manufacturing

The interest taken in these exhibitions is shown by the throngs that resorted to them. From the best estimates afforded, appended to the report referred to, which more than 200,000 persons were visitors, confirmed the long disputed facts, that at the several exhibitions referred to. The the same articles which were early and port of the third annual fair, will apply cles procured by the consumer, with the to all. The managers observe, that "they least cost-confirming, most conclusively, and amusement, and looked no farther, it tions, through all the departments of proafforded innocent gratification."

improvements.

his workshop duly appreciated, and the mens that received the highest premiums

cessfully applied in accomplishing this evidence of their merit promulgated. object. Individuals followed the exam- Those who had been persuaded that we ple of importing seeds, and at this time, are too young a people to enter the course and by these means, millions of thrifty in competition with the old world, were mulberries are now growing in our country, affording sufficient nutriment for infancy, our vigor, enterprise, and genius, calculable numbers of silk-worms. If have already accomplished results which the American Institute had done no other have cost other nations centuries, and act of public benefit, its members would will soon enable us to distance them in have been entitled to the gratitude of the race of glory. To the exalted indieir country. viduals, the patriotic chief magistrates But the labors of the Institute have and judges of our sister states, who had purposely attended, and to our own disseven successive annual fairs have been tinguished citizens, in and out of office, held; and, on the best computation, full who were present, countenancing and entwenty thousand different specimens ex- couraging our exertions, we tender our hibited. No branch of industry was un- thanks. "The praise of illustrious men," represented. Most of these articles were say the managers in conclusion, "has of a quality that would have commanded always been a most acceptable reward to admiration in countries that commenced genius and enterprize; and their presence, and countenance, will always exwere a nation. Such was the display at cite to higher efforts, and still more bene-

These fairs were peculiarly timely in their influences. Many of them were held while the great national question of protection or abandonment was pending; and for the purpose of convincing the most obdurately incredulous, a list of the principal articles, with the duties, was brilliancy of these exhibitions attracted effectually protected, are the very articles the attention of all classes of our citi- now fabricated in the greatest abundance zens. What was said in the official re- and perfection, and the very same articannot but contemplate the third annual the numerous former reports made to fair of the Institute with pride and plea- the Institute in favor of protecting duties. sure. To those who sought recreation The influence of these exciting exhibiductive industry, who can calculate? "Those who can feel a patriotic pride They are all intimately connected, and in beholding the progress of their coun-flourish and decline together. These try in manufactures, and the arts, and an exhibitions have created a confidence increase of its self-sustaining resources, among capitalists in our ability to manuin advance of their best hopes, realized facture, and thereby ingenuity has been more animating and exalted sensations, better and more certainly rewarded. The The gay and fashionable were delighted; intensity of the competition has operated the middling classes, our city yeomanry, through all the departments of the workthe steady supporters of order, law, and shop-from the owner to the journeyman, religion, enjoyed a rich feast. The cu-down to the humblest apprentice,—and riosity of the inventor and artist found carried genius to its utmost stretch. It food to satisfy itself among the almost in- is on these occasions, and by these means, finite variety that ingenuity and skill had that obscure artisans are enabled to bring brought into existence. The emulating their fabrics to public view, and profitamechanic saw the choice productions of ble markets. Some of the finest speciwere made by hands before unknown, takings of the Institute,) will confer on expressly for the last fair, and by consent it more certain perpetuity, with accomof their employers. By such full, re- panying utility, than all that has been repeated, and continued displays, opportudone besides. If in process of time, nity is given to observe every improve- our city should be ravaged by hordes of ment, and to profit thereby; and thus the barbarians, the library of the Institute knowldege of new discoveries and im- might suffer a similar fate with some of provements is early sattered, and brought the works of art and genius of ancient into general use. It is here the consu- Rome. But, we trust that no such mer can accommodate himself with the destiny awaits us, and imagination can article he requires, made in the most scarcely conceive any other destructive bers of the fabricators and agents are power—and its seeds are sprouting in all conspicuously labelled on the article. parts of Christendom. It has taken deep Every sale effected is beneficial both to root, grown, and spread, all over our rewants of the consumer are well supplied, all classes of society. The schoolmasfacturer to fresh exertions. The extent duty. The value of our institutions is of the sales effected by the last fair pro- universally appreciated, and a war of heavy amounts.

from year to year, may be distinctly no- tiply ten-foldlin a few years. Compare it ted. Hitherto each anniversary has af- with some other libraries in this cityforded specimens superior to any that which opened with bountiful subscriptions have preceded. New articles have been in money-and phalanxes of wealthy produced, and old ones finished in names to give effect to their money and greater perfection. Every fair has pro- their efforts. It will be found that the arising from foreign associations, and than one or two libraries in the State. cheaper and better than before, have nothing further is ever required. been accompanied with a moral influence time of a most enduring nature.

statistical library, (one of the late under- income would not warrant the contribu-

skilful manner. The names and num- visitation. Knowledge, it is said, is the manufacturer and consumer. The public. Its healing influences pervade and the ready sale stimulates the manu- ter has been among us, and done his bably exceeded in value all that were ignorance and barbarism, upon them, brought to the exhibition rooms. Most would be considered a war upon the of the first premium fabrics were disposed people's best interests and hopes-such of at an early day, and many of the a common enemy would be hunted stores and warehouses from whence the down with resistless and exterminating articles came, were afterwards sought force. The library of the American Inout, and purchases made from them to stitute will last as long as letters. Its 3000 volumes already subscribed, and Here the progress of manufactures, contributed, will double, triple, and mulduced additional evidence of the accura- Institute, which commenced without a cy and potency of labor-saving machine- dollar, have, since their library rooms ry. The wonderful facility with which were opened-within the last year-doumany delicate fabrics may be multiplied, bled the number of volumes procured by has been exemplified in giving a finish of similar establishments in this city, comwhich the human hand is totally incapa- menced years before this Institute was inble. I ought not to omit the especial corporated. But the quality of the books, and highly important benefits to this city more than the number of volumes, is calderived from these public exhibitions. culated to give value to our establishment. Prejudices and determinations adverse to It is literally a library of practical utilimanufacturing industry, of long duration, ty, not surpassed, at this time, by more

partial interests, have been, to a great What has principally conduced to this extent, removed, or changed. These unexampled success, is the extraordinary peaceable and wholesome conflicts, in liberal terms held out to subscribers. which the competitors have strove to Twenty-five dollars in money, or books, procure our necessaries and comforts confer the privileges of the library, and

Who is there, in this reading age, who highly favorable to patriotism and genu- cannot contribute, from their own shelves. ine American feeling, and at the same what is required to gain access to one of the most useful libraries in the country? It But, after all, the establishment of a was intended to benefit that class whose

tions in money in the outset, and the decline must be attributed to recent imafter yearly dues, required by most other provements in machinery. If they had of a few books, already perused, for an cotton machinery ever used in this counthe last fifty years.

this library is intended to promote a taste varied the prices of these cottons 61 try,) much neglected branch of human knowledge. The most ruinous consequences in legislation often follow from ignorance of facts. The premises are based on error, and the conclusions are

stated as an illustration.

After the high protective duties were imposed on coarse cottons, every day these articles were offered for sale, of a better quality—and soon prices fell from 25 cents to 9 cents per yard, and now they are sold at $6\frac{1}{4}$ cents per yard. The advocates of home industry confidently relied on these facts, as evidences of the wholesome effects of protection, and the policy of extending similar encouragement to other unprotected articles. The free trade advocates said, no; they contended that the reduced prices of coarse cottons had been caused by the fall of They had not learned, that whether cotton was 10 or 20 cents per pound, would not, at the farthest, make a difference of more than $2\frac{1}{2}$ cents in a yard, and for a reason that is unanswerable: because 1 lb. of cotton will make 4 yards, and the reduction at that time was from 25 to 9 cents, a nett reduction of 16 cents. Had they known this, they must have readily seen that 13½ cents, after deducting the 21 cents, would have been still unaccounted for. Others ascribed the fall to the reduced prices of manual A very little knowledge of facts would have satisfied them, that only a fraction of manual labor is required in making a yard of this cloth, not ½ a cent. from its dispensing with manual labor, almost entirely. Others again said, the 25 per cent per annum.

large libraries. It is in fact an exchange inquired, they would have found the first extensive library, to which the subscriber try was in successful operation, and then may at all times resort, and select, for a successfully competing with the new reasonable time, a volume to take to his concerns with their improved machinery. home. It is the design, as far as practi- And if they had gone among the manucable, to obtain such books as relate to facturers of cotton, they would have found the manufacturing and mechanic arts, it a controverted question, whether any and statistics in general, embracing par- essential improvements had been made. ticularly statistics of the improvements of The truth is, that all the reduction of prices on coarse cottons, since the tariff A general and accurate knowledge of was made—arising out of the fall of statistics is essentially necessary, in our cotton, and manual labor, and improvereasonings on political economy. And ments in machinery, combined—have not for this useful, but hitherto, (in this coun- cents per yard. But allowing that they have reduced the price full 64 cents, they are still 50 per cent. cheaper than when the tariff was laid: clearly showing that each and all of the reasons specified are totally inadequate to account for alike erroneous. A single case will be the reduction that has taken place in coarse cottons.

A statesman, legistating from such mistaken views of the facts—the very ground-work of his premises-would do

inconceivable mischief.

The fact is, that the principal cause of the low prices of cottons arises from confidence, capital, competition, industry, and economy. The unexampled high duties on imported cottons gave confidence-capital followed-skill and industry were tempted by the rewards which capital offered. Competition naturally sprung up, and the efforts of competition introduced renewed industry, division of labor, economy, and every species of saving that ingenuity could contrive. It is an everlasting truth, that the main cause of our unprecedented success in the manufacture of cottons, amounting at this time, and at their present low prices, to thirty millions of dollars per annum, is the high protection they at an early day received. If protection has had no influence on cottons-and until the minds of statesmen are immoveably settled in this principle, the rewards of our industry must forever be precarious—why did prices, when they were unprotected, continue nearly stationary, 15 years after Arkwright's jenny was introduced ?*

^{*} Note.—Fifteen years after it was introduced, viz. The perfection of cotton machinery arises in 1805, only 1000 bales were manufactured, and in from its dispensing with manual labor, 1831, 214,882 were manufactured. The increase of the cotton manufactured for years has been equal to

maintained their former prices?

system.

Twenty years after Arkwright's cotton machinery was first introduced into the United States by Samuel Slater, we had dertakings. made comparatively but little progress in the form of goods, with land carriage, to the foreign and American merchant, both. Our statesmen relied on imported themselves.

This tedious illustration, drawn from the manufacture of coarse cottons, has been adduced, not only for the purpose of showing the importance of a statistical library, where correct facts and accurate statistics may be obtained, but also incidentally, to explain the effects of a high protecting tariff on the domestic manufacmillions of our citizens with a necessary article at half its former cost; besides nufacture of cottons would in all probabias long as knowledge is valued. progress in fifty years.* Fortunately,

The foregoing embraces a brief sketch manufacturing coarse cottons. They were of some of the prominent things which the then more than 400 per cent. higher in American Institute have already done. If their prices than at this time. There the question is asked what we have done, was no protective tariff, and the capitalist we can refer to our written and printed held back—and the consumer was left to communications, domestic and foreign. pay, from his own pocket, the cost of We can read our numerous reports in detransporting the raw material 3000 miles, fence of adequate protection, when hereand also the cost of bringing it back in sies were industriously propagated by our foreign rivals, intended for our destruction. taxes, insurance, &c., besides profits We may also refer to our able and ample discussions before the Institute on subjects most intimately connected with our theories, instead of examining facts for domestic industry. We can show the groves of mulberry trees which have grown from seeds we have distribu-We can conduct the inquirer to ted. our fairs, and through our exhibition rooms, and point him to the splendid displays—the unalloyed fruits of American perseverance and ingenuity. We can show him the long list of diplomas and medals, and other rewards, the testimoniture of cottons, which now supply thirteen als of merit, and the successful stimulants of genius. We may read to him the eloquent addresses delivered at our fairs by adding to our exports to foreign countries distinguished orators and statesmen from two millions five hundred and thirty-two other States. And, above all, we can inthousand five hundred and seventeen troduce him to our library, and show him dollars. [Vide Reports of Secretary of in its fulness the compressed wisdom of the Treasury.] If the genial influences of ten thousand minds-a monument of our protection had not been applied, the ma- exertions that will reflect honor upon us lity have been of as little moment, in our have, conformably to our charter, prolist of productions, as that of flax, which moted domestic industry by encouraging had not been adequately protected, and Agriculture to cultivate her choicest proaccordingly has not made the smallest ductions. We have endeavored to place manufactures on a firm foundation, that thereby they may afford agriculture a perpetual market. By the reciprocal influences of each on the other, we have increased the exchangeable commodities which give employment to commerce;

Why have linens, silks, fine broad-statistical knowledge is beginning to find cloths, and other articles, either not at favor. Unsatisfactory conclusions, drawn all or inadequately protected, nearly from data supplied by the imagination, at war with facts, are beginning to be re-A correct knowledge of facts would garded in political economy as useless as have arrested innumerable pernicious they are in other sciences. And we are heresies in political economy, that have warranted in anticipating that, in the fuled to legislation which has often dis- ture history of this Institute, the establishturbed and injured our whole social ment of this library at this time, and upon the principles and for the purposes contemplated, will most assuredly be pronounced one of the wisest of all our un-

^{*} According to Smith's history of the state of New-York, between the 9th December, 1755, and the 23d of February following, 76 days, we shipped 12,588 tierces of flax seed to Ireland.

The imports from Great Britain for the colony of New-York were then estimated at about \$480,000 per annum; they now amount to about \$20,000,000 per an.

The amount of flax seed shipped from the whole United States to Great Britain and Ireland is stated to

have been only 17,243 tierces, in 1832, though our population had increased more than six times told, and our importations into this State more than 40 times.

abundant means acquired by all.

required to be done.

particularly such facts as would show the ficial. effect of the tariff on the qualities and prices of manufactured articles. plan will be completed. It will afford a the Institute. mass of facts eminently useful to the political economist, and the practical states-

means of bounties on the culture and exobviously to be preferred, and sooner or consider it his library-every member prove that our soil is propitious to the his friends to follow his example. mate congenial to-the rearing of the in- worth than the consideration paid. into activity, will perfect new labor-saving greatest library in the State. out protection, the cautious capitalist will members as durable as the benefits which not encounter the competition of those would flow from it. immense establishments which centuries vernment favors, as exclusive as legisla- our attention. the most skilful workmen. The protective shield of the government must, ere In addition to the useful information long, be extended. In the mean time, they may from time to time report, great let nurseries be cultivated for the spread assistance might be rendered by them in of the plants of the mulberry, on liberal, obtaining minute local statistics, and in and, if possible, on gratuitous terms.

The commitfor conducting our fairs. tees of publication, arrangements, premi- great central institution, devoted to indusums, &c., should be desired to report the try and the arts, might be urged with inconveniences and defects they have ob- great effect in our occasional intercourse

and, by these combined means, wealth has for the purpose of framing a well-digested followed to apply to the ornamental arts. system, that shall afford a ready rule of In a word, the farmer has found a market conduct for future managers and commit-—the manufacturer has procured the detees. The seasonable appointment of sired material—the merchant has multicompetent, disinterested, and respectable plied his purchases, sales and profits, - judges, whose punctual attendance may and the artist is better rewarded by the be relied on, is an important consideration. Much of the value of the rewards bestow-It will be remembered I also proposed ed depends on the standing and characto name some things that are hereafter ter of the persons awarding them. cure inclosures should be provided for At an early period of this Institute a choice fabrics and delicate machinery. resolution was passed, with a view of ob- Security against damage would increase taining reports of facts from all the diffe- the number of articles, and render the rent occupations and professions, and competition more general and more bene-

Semi-annual fairs, for the purpose of The sales only, have been suggested. It is object of this resolution, as heretofore worthy of consideration how far they shown, has been partially accomplished. might be made useful, and whether they It is earnestly to be hoped that the whole might not be made a source of revenue to

No one act, however, has contributed more to exalt the American Institute than their library. Get knowledge-get know-Policy demands that efficient means ledge-are the watch-words of wisdom should be applied to the raising of silk, by among our competitors. Our library will afford an exhaustless fountain. An effort portation, if protective duties are perma- should be made, by every member, to innently to be withheld; but the last are crease its volumes. Every member should later will be resorted to. Experiments should become a subscriber, and solicit growth of the mulberry tree, and our cli-value of the scrip received is of more sect that produces the silk. Ingenuity, united effort by all the members of the Inby the stimulus which capital must bring stitute would in a few weeks create the machines for its manufacture. But with- effort would confer honors on the present

The ward institutes, which have alreaago were nurtured into existence by go- dy been partially organized, next require They are no more nor less tion could create, and which have since than branches, intended to operate in all been fortified by overgrown accumula- the wards of this city, and eventually to tions of capital, and are now filled with be extended to the counties out of the

city.

adding to the members of the mother in-A systematic plan should be devised stitute, and also in advancing the library. The importance to the country of one served in conducting their departments, with those who visit our city. A formal appointed to visit our principal cities and beneficial. Members might then examine villages, and invite public spirited gentle- and reflect on the subjects to be brought men of independent fortunes to assist in under consideration. forwarding the useful objects of the Insti- would then exhibit the results of investitute. Large numbers, no doubt, might gation, and be profitable to the hearers. be induced to become members, and also The frivolous questions discussed, and the cultivating a correspondence with literary the respectability of the Institute. and scientific institutions, and individuals, generally, in this and foreign countries, stitute into the country, among the mathe earliest information may be obtained nufacturers, they may induce their agents, of all new discovered materials, and new the domestic dealers, in the city, who are and useful processes in manufacturing.

without any material injury.

purpose, who has not learned that many terred by the trouble and expense of the Punctuality, by many, is classed among their agents good. They will be more these unimportant matters. The reverse than compensated by the increased deof this is the fact. The success of all mand and ready sales of the exhibited public and private institutions depends articles. much on the punctuality of their officers. dual a few minutes. The tardiness of the whole of the community. one small wheel may throw an immense machine completely out of gear.

and well done.

business of the coming meetings previ- this subject, and the subject of silk, pray-

committee might with great propriety be ously announced, would, it is believed, be The discussions contributors to the library. A considerable protracted and useless verbiage expended number of gentlemen out of the city have on these questions, has formerly driven already enrolled their names as members; valuable members from the Institute. A and others, unsolicited, have subscribed to previous assignment of business, and nothe library. By frequent communications tice of the same, would have a powerful with the contemplated branches, and by tendency to correct this evil, and add to

By extending the influences of the Inreceiving such liberal commissions from There is a variety of things, in relation the success of manufactures, to enlarge to the Institute, which would by many be their views, and lend a helping hand at classed among small and unimportant our fairs, and not suffer the great intermatters, that may be done or neglected ests of cottons and woollens to be meagerly represented by a few scanty speci-But he has lived and observed to little mens. If these domestic agents are deof the great operations of business, public carting, or the fear that the goods sent and private, are controlled by them. may be rumpled, let the owners make

Not only individual, but legislative The want of punctuality does not end aid, should be invoked in favor of the with the delinquent; it discourages and objects contemplated in our charter. The disheartens those who are punctual, and utility of statistical knowledge has alreasometimes creates ruinous derangements. dy been commented on. Our legislative One failure to form a quorum is often documents contain a mass of undigested succeeded by another; and much exer- statistics, obtained by the State at great tion is often required to finish the busi- expense, which, if selected, digested, inness, which might have been prevented dexed, and published, would be invaluaby a punctual attendance of a single indi- ble. It is now totally useless to nearly

The New-York Annual Register, compiled by the industry of one of our mem-Much of the precious time of the Insti- bers, is now almost the only work from tute has on former occasions been con- which even a partial knowledge of the sumed in prolonged debates, on questions resources and capabilities of this State of order, law, and constitutional construc- can be obtained. Some competent pertion, often totally irrelevant. These dis- son should be employed, to arrange the cussions are particularly provoking to information already procured, and supply our best business men-members who the deficiences. The State would be trouble themselves very little about forms, indemnified ten-fold for the expenditure if the work required to be done is done, it would require-by the discoveries it would promote—the emigrations it would It is matter of congratulation that this invite-and the increased demand it useless habit is almost entirely corrected. would create for our improved and un-Some regular plan, and a notice of the improved farms. A memorial embracing favor with an intelligent legislature.

in favor of a course of lectures, from contain knowledge not found in books. members of the Institute, exclusively, is Lectures so conducted will give conficalculated to do good. Those whose dence to those who prepare them; and, in habits do not qualify them for extempo- process of time, men now obscure, and raneous efforts, are often in possession of unthought of, will learn to reason, deduce valuable ideas. Every member of the principles, and march direct, to conclu-Institute can write, and read. Most of sions, with the accuracy of philosophers. the members have important ideas, par- This course of lectures is intended to ticularly in relation to their own every- form, in the Institute, an undisputed palday concerns, and business. The inten- pable feature of republicanism: not that tion of the proposed course of lectures sort of republicanism which is assumed is to bring these ideas into the possession by partisan politicians, which lives only and use of the Institute, from minds of while the polls are open, and expires different structures, habits, professions, when they close. But that republicanand inclinations. They are intended to ism, which at all times recognizes, in the be the offsprings of experience, and the members of this association, a perfect practical suggestions of actual business. equality of privileges, and which desires bers, and entertaining for their novelty. all its performances, honors, and advan-They will be useful, because they are tages. derived from experience, the great source of useful knowledge and human improve- for the establishment of a periodical ment. Such a collection of facts as will Journal, -weekly, monthly, or even quarnaturally be collected, opened to the terly. It would collect and distribute examination of a variety of inventive knowledge; make the objects and operaminds-and our patent office shows we are tions of the Institute better understood; not wanting in them,-cannot but suggest increase its members, and thereby its new thoughts, and lead to new improve- ability to accomplish the designs conments. A single glance has often in- templated by its act of incorporation. duced a new principle, or led to a new combination of immeasurable conse- and specimens of art, has, as it were, quence. It was, no doubt, an apparently spontaneously commenced. The library accidental thought that led our country-rooms now constantly exhibit some of the man, Whitney, to the construction of his fruits of art and genius. This comafter it is reduced to a glittering cobweb tends twice a week to give descriptions

ing for an appropriation, ought to find by the gold-beater. A collection of such vor with an intelligent legislature. discourses would be sought, and read, The late determination of the Institute, with satisfaction and profit. They would They will be novel to most of the mem- every member to participate equally in

An early effort should be made

A collection of models of machines, cotton gin. That thought, subjected to mencement of a cabinet, interesting and the patient workings of ingenuity, and useful, should be nurtured and sustained. perfected by practical skill, has doubled It will present a miniature display, in this the value of lands, whose inhabitants are great central emporium, of the improvesufficiently numerous to constitute a na- ments of the age, convenient for examition, and has enabled the United States nation. Competent persons may be apto sustain the balance of trade with the pointed to explain their properties and commercial world. It is not intended by uses. Why should not New-York conthese lectures to exhibit orators. They tain such an establishment? Paris has are not intended to ingratiate some fa- her Conservatory of Arts and Trades. vorite candidates for office with the It is admired by all strangers who visit people. But to give confidence to plain that interesting city. It contains a colunassuming middling men, and to induce lection of all the instruments and mathem to put on paper, and read to their chines used in the sciences and trades brethren, such facts, and reflections, as throughout France; all the inventions they in their respective vocations have which have obtained rewards from the gathered-expressed in the style, and French Government, or public bodies, as language, in which they think, and speak, well as patents-all find a place in this before they have undergone the expanding repository; and also many of foreign ordeal of declamation. We desire the origin. Foreigners are admitted by merenative ore directly from its bed, and not ly showing their passports. A man atthe great cities of Europe have reposito- into the endless labyrinths of nature. ries for similar purposes. Let it not be I have thus given a rapid notice of ries for similar purposes. Let it not be

proportioned to their knowledge.

to visitors. The National Repository in of abstract visions and logical subtleties. London, with similar objects to our Institute, is patronized by the King. The experiment—"weighed, measured, and managers and inspectors are selected analyzed." Every step that precedes from the most distinguished men in the conclusions is fortified by demonstration. kingdom. In the list of officers are Accordingly, our improvements within members of Parliament, Lords, and Com- the last fifty years have surpassed all moners, members of the Royal Society, that had gone before. Each new imand many of the first philosophers and provement has led on to others. Every scholars in the British empire. Most of new discovery has opened new passages

supposed, because we are wanting in no. what may be done. Standing as we do blemen, that we cannot support such an on the vantage ground, elevated as it is establishment. We have nature's noble- by discovery and invention, are our anmen. The people are our noblemen. ticipations all visions, or are they des-They have shown their devotedness to tined to be realities? Are we to suppose our and their cause. For seven succes- that we have reached an impassable sive years they have patronized and up-barrier, erected against future improve-held the American Institute. They are ment? Before the invention of the marnot untaught operatives, but an enlight- iner's compass, who could have conceived ened, reflecting people, who not only that an inanimate substance could be know how to use their hands, but are fa- found that would be a safe guide on the miliar with principles, and whose chances trackless ocean in the darkest night? of making important discoveries must be Before the telescope was invented, who could have conceived of an instrument The world does not present a position that would light up a way in the heavens, as auspicious for a great and infinitely ten thousand times farther than any huvaried museum of useful curiosities as man eye before had ever penetrated? our city. How propitious its tendency to And may not some future discovery enapromote that alliance of art and science, ble those who come after, to penetrate so conducive to useful discoveries and the hidden properties of matter, and the improvements! How greatly must it con- undiscovered agencies of nature, with tribute to elevate still more that portion equal success? What enthusiast, before of our fellow citizens whose occupations, it was done, would have believed that within a century, were considered de- machinery could do the work of forty grading! They were for ages excluded millions of people? This was effect. from the benefits of science, the great ed, several years since, on one comvivisities of the arts. The laboratory was paratively small island. To have once kept far off from the workshop; and the hinted that the lightning could be disfabricators of our comforts were suffered armed of its terrors, and made harmless, to group in ignorance and darkness. Sci- by any human contrivance, would have ence has at last entered the factory, and been blasphemy. The wonders of steam the shop, and a new era in productive la- we have all witnessed, on the land and bor has commenced. The philosopher, on the water. Its powers began but yes-instead of being employed among wild terday to unfold; now guided by genius, theories and visionary fancies, is busy in it propels the magnificent ship "against selecting and arranging facts, on which tides and tempests." It enables the to employ his philosophy, and base his ar- freighted boat to buffet the impetuous guments. The race of schoolmen are currents of our mighty rivers,-ascenddefunct. The hunters after the philoso- ing sure, steady, and direct, to the place pher's stone, the seekers after perpetual of destination. It wings the car in its motion, are rarely heard of. The train rapid course on the railway, from city to of abstract reasoners, the race of alchy-city, and from country to country. To mists, with their cotemporaneous witches, facilitate the discoveries and operations hobgoblins, and ghosts, have sunk into of the miner, rivers by its potent workoblivion together. The philosophy of ings are disgorged from the deep caverns common sense has succeeded; well at- of our earth. In our forges we may see tested facts and analogies hold the place it "seizing with mechanic claws ponderous ribbons." Steam, exhibited in its minuter operations, in the factory, is not less wonderful: attenuating the smallest fibres of our cotton with a regularity, delicacy, and accuracy, that no human hand could wieldy for its strength, or too delicate for tended.

masses of iron, and beating them into its touch? But these are only the prebars, or pressing them into plates, and cursors of other still more sublime accutting them in pieces, as if they were complishments reserved for human genius-the dawnings of that perfection which futurity will unfold.

Let us, one and all, seize the opportunity, and apply the means which Providence has conferred upon us, by employaccomplish, and which nothing but the ing our best exertions and talents to stiunerring instinct of the silk-worm, or the mulate and quicken invention, by spreadspider, can equal. Such are the instru- ing knowledge, and instigating emulaments of this same power which know- tion; and thereby improvement will be acledge has unfolded and subjected to the celerated, and the proud dominion of mastery of man. What is there too unmind over matter will be still further ex-

















